# FACT SHEET

as required by LAC 33:IX.2411, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0042081; AI 4668; PER20060001** to discharge to waters of the **State of Louisiana** as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

**I. THE APPLICANT IS:** Jefferson Parish Department of Sewerage
Harvey Wastewater Treatment Plant
1221 Elmwood Park Boulevard, Suite 803
Jefferson, Louisiana 70123

**II. PREPARED BY:** Todd Franklin

**DATE PREPARED:** March 21, 2007

**III. PERMIT ACTION:** reissue LPDES permit LA0042081, AI 4668; PER20060001

LPDES application received: November 8, 2006

EPA has not retained enforcement authority.

Previous LPDES permit effective: May 1, 2002
Previous LPDES permit expires: April 30, 2007

**IV. FACILITY INFORMATION:**

A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving the Harvey, Terrytown, and Timberlane areas.

B. The permit application does indicate the receipt of industrial wastewater. The industrial dischargers include:

| Name of Discharger | Flow |
|---|---|
| Meadowcrest Hospital | 91,047 GPD |
| Oakmont Environmental, Inc. | 1,357.43 GPD |
| Evans Industries, Inc. | 21,852 GPD |

C. The facility is located at 2343 Pailet Street in Harvey, Jefferson Parish.

D. Primary treatment provided by grit screenings, primary clarification, trickling filter, solids contact, secondary clarification, and disinfection using chlorine. The disinfection system is in the process of being converted to liquid sodium hypochlorite.

E. Outfall 001

Discharge Location: Latitude 29° 54' 42" North
Longitude 90° 4' 49" West

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Description: treated sanitary wastewater

Design Capacity: 13.7 MGD

Type of Flow Measurement which the facility is currently using:

Combination Totalizing Meter / Continuous Recorder

## V. RECEIVING WATERS:

The discharge is into the Mississippi River in Subsegment 070301 of the Mississippi River Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

The **critical low flow** (7Q10) of the Mississippi River is 141,955 cfs.

The **hardness value** is 149.7 mg/l and the **fifteenth percentile value for TSS** is 25 mg/l.

The designated uses and degree of support for Subsegment 070301 of the Mississippi River Basin are as indicated in the table below[1/]:

| Overall Degree of Support for Segment | Degree of Support of Each Use | | | | | | |
|---|---|---|---|---|---|---|---|
| Full | Primary Contact Recreation | Secondary Contact Recreation | Propagation of Fish & Wildlife | Outstanding Natural Resource Water | Drinking Water Supply | Shell fish Propagation | Agriculture |
| | Full | Full | Full | N/A | Full | N/A | N/A |

[1/] The designated uses and degree of support for Subsegment 070301 of the Mississippi River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2004 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

## VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 070301 of the Mississippi River Basin, is listed in Section II.2 of the Implementation Strategy as requiring consultation with the U.S. Fish and Wildlife Service (FWS) as habitat for the Pallid Sturgeon, which is listed as an endangered species. Since effluent limitations are established in the permit to ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat, LDEQ has determined that the issuance of this LPDES permit is not likely to adversely affect the Pallid sturgeon or its aquatic habitats. As instructed by the FWS in a letter dated September 29, 2006 from Watson (FWS) to Brown (LDEQ), this fact sheet has been sent to the FWS for review and consultation.

## VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible

for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

## VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit modification and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Mr. Todd Franklin
Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

## IX. PROPOSED PERMIT LIMITS:

Subsegment 070301, Mississippi River-from Monte Sano Bayou to Head of Passes, is not listed on LDEQ's Final 2004 303(d) List as impaired, and to date no TMDL's have been established. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by any future TMDLs.

The previous LPDES permit contained water quality based limits for Total Mercury and TRC. As per LAC 33:IX.2707L.2.a.ii, availability of information which was not available at the time of previous permit issuance and will justify the application of less stringent effluent limitations in the proposed permit constitutes an exception to LAC 33:IX.2707.L.1, which states when a permit is renewed or reissued standards or conditions must be at least as stringent as the final limitations, standards, or conditions in the previous permit.

In the previous permit, the Harvey Wastewater Treatment Facility was required to meet a monthly average limit of 0.23 lb/day Total Mercury. This limit was placed into the permit because the receiving subsegment was listed as being impaired for Mercury. However, since the previous permit was issued, LDEQ's 2004 303(d) list was approved and removed all impairments previously listed for this subsegment. Also, according to DMRs from August 2004 through July 2006, there were no effluent violations for mercury. The priority pollutant screen submitted along with the application did not indicate the presence of mercury in the discharge. Therefore, the water quality based limit for Total Mercury has been removed from the permit.

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In the previous permit, this treatment facility was required to meet a maximum limitation of 1.0 mg/l TRC. A review of the DMRs from October 2004 through September 2006 was performed and found no effluent violations for TRC. Also, a geometric mean was calculated using the results from the DMRs. A water quality screen was performed using this data and did not indicate a need for a limitation for TRC. Therefore, the limitation for TRC has been removed from this permit.

**Final Effluent Limits:**

**OUTFALL 001**

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

| Effluent Characteristic | Monthly Avg. (lbs./day) | Monthly Avg. | Weekly Avg. | Basis |
|---|---|---|---|---|
| $BOD_5$ | 3,428 | 30 mg/l | 45 mg/l | Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for facilities of this treatment type and size which discharge into the Mississippi River. |
| TSS | 3,428 | 30 mg/l | 45 mg/l | |

**Other Effluent Limitations:**

1) **Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5.b.i, the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) **pH**

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C, the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) **Solids and Foam**

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113:B.7.

**Toxicity Characteristics**

In accordance with EPA's Region 6 Post-Third Round Toxics Strategy, permits issued to treatment works treating domestic wastewater with a flow (design or expected) greater than or equal to 1 MGD shall require biomonitoring at some frequency for the life of the permit or where available data show reasonable potential to cause lethality, the permit shall require a whole effluent toxicity (WET) limit (*Permitting Guidance Document for Implementing Louisiana Surface Water Quality Standards*, September 27, 2001 VERSION 4).

Whole effluent biomonitoring is the most direct measure of potential toxicity which incorporates the effects of synergism of the effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity. LAC 33:IX.1121.B.3. provides for the use of biomonitoring to monitor the effluent for protection of State waters. The biomonitoring procedures stipulated as a condition of this permit are as follows:

The permittee shall submit the results of any biomonitoring testings performed in accordance with the LPDES Permit No. LA0042081, **Biomonitoring Section** for the organisms indicated below.

| TOXICITY TESTS | FREQUENCY |
|---|---|
| 48 Hour Definitive Toxicity Test using Daphnia pulex | 1/year |
| 48 Hour Definitive Toxicity Test using fathead minnow (Pimephales promelas) | 1/year |

Dilution Series - The permit requires five (5) dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional concentrations shall be 0.19%, 0.25%, 0.34%, 0.45%, and 0.60%. The low-flow effluent concentration (critical low-flow dilution) is defined as 0.45% effluent. The critical dilution is calculated in Appendix B-1 of this fact sheet. According to the Implementation of State Standards, acute toxicity testing in addition to, or in lieu of, chronic toxicity testing may be imposed for discharges that have a critical dilution of five percent (5%) or less. An acute to chronic ratio has been applied in the calculations. Results of all dilutions shall be documented in a full report according to the test method publication mentioned in the **Biomonitoring Section** under Whole Effluent Toxicity. This full report shall be submitted to the Office of Environmental Compliance as contained in the Reporting Paragraph located in the **Biomonitoring Section** of the permit.

The permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body. Modification or revocation of the permit is subject to the provisions of LAC 33:IX.2383. Accelerated or intensified toxicity testing may be required in accordance with Section 308 of the Clean Water Act.

**Toxic Substances**

Due to drinking water supply being a designated use, the permittee shall analyze the final effluent for the presence of the following toxic substances. The MQL is intended as action levels. Should a toxic substance exceed the MQL, the permittee shall determine the source of the substance and take whatever measures necessary to secure abatement in order to protect all drinking water sources downstream of the discharge. The LDEQ Regional Office and all drinking water intakes within five

(5) miles downstream of this discharge shall be notified upon detection of any toxic substance above the MQL. Records of any actions taken shall be made available upon request by any duly authorized regional inspectors and/or LDEQ Headquarter representatives.

A report containing the results of the lab analysis indicating if any toxic substances have exceeded the MQL including a brief summary of any abatement taken at the time, must be submitted to this Office within 20 days of completion of the analysis. **The first analysis shall be performed within one year following the effective date of the permit, and annually thereafter, by a 24-hour composite sample type.**

Reports must be submitted to the following address:

Department of Environmental Quality
Office of Environmental Compliance
**Enforcement Division**
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312

**TOXIC SUBSTANCES**

| TOXIC SUBSTANCES (CAS NO.) | Required MQL (µg/l) | EPA Test Method |
|---|---|---|
| **VOLATILE ORGANIC CHEMICALS** | | |
| Acrolein (107-02-8) | 50 | 624 |
| acrylonitrile (107-13-1) | 50 | 624 |
| benzene (71-43-2) | 10 | 624 |
| bromodichloromethane (dichlorobromomethane) (75-27-4) | 10 | 624 |
| bromoform (tribromomethane) (75-25-2) | 10 | 624 |
| carbon tetrachloride (56-23-5) | 10 | 624 |
| chlorobenzene (108-90-7) | 10 | 624 |
| chloroform (trichloromethane) | 10 | 624 |
| chloromethane (methyl chloride) (74-87-3) | 50 | 624 |
| 1,1-dichloroethane (75-34-3) | 10 | 624 |
| 1,2-dichloroethane (107-06-2) | 10 | 624 |
| 1,1-dichloroethylene (75-35-4) | 10 | 624 |
| dichloromethane (methylene chloride) (75-09-2) | 20 | 624 |
| cis-1,3-dichloropropene | 10 | 624 |
| trans-1,3-dichloropropene | 10 | 624 |
| ethylbenzene (100-41-4) | 10 | 624 |
| para-dichlorobenzene* | --- | --- |
| 1,1,2,2-tetrachloroethane (79-34-5) | 10 | 624 |
| tetrachloroethylene (127-18-4) | 10 | 624 |
| toluene (108-88-3) | 10 | 624 |
| 1,1,1-trichloroethane (71-55-6) | 10 | 624 |

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| | | |
|---|---|---|
| 1,1,2-trichloroethane (79-00-5) | 10 | 624 |
| trichloroethylene (79-01-6) | 10 | 624 |
| vinyl chloride (chloroethylene) (75-01-4) | 10 | 624 |
| **ACID EXTRACTABLE ORGANIC CHEMICALS** | | |
| 2-chlorophenol (95-57-8) | 10 | 625 |
| 3-chlorophenol | 10 | 625 |
| 4-chlorophenol | 10 | 625 |
| 2,4-dichlorophenol (120-83-2) | 10 | 625 |
| 2,3-dichlorophenol | 10 | 625 |
| 2,5-dichlorophenol | 10 | 625 |
| 2,6-dichlorophenol | 10 | 625 |
| 3,4-dichlorophenol | 10 | 625 |
| 2,4-dinitrophenol (51-28-5) | 50 | 625 |
| pentachlorophenol (87-86-5) | 50 | 625 |
| phenol (108-95-2) | 10 | 625 |
| 2,4,6-trichlorophenol (88-06-2) | 10 | 625 |
| **BASE/NEUTRAL EXTRACTABLE ORGANIC CHEMICALS** | | |
| anthracene (120-12-7) | 10 | 625 |
| benzidine (92-87-5) | 50 | 625 |
| bis(2-chloroethyl)ether (111-44-4) | 10 | 625 |
| bis(2-chloro-1-methylethyl)ether (39638-32-9) | 10 | 625 |
| bis(2-ethylhexyl)phthalate (117-81-7) | 10 | 625 |
| di-n-butyl phthalate (84-74-3) | 10 | 625 |
| 1,3-dichlorobenzene (541-73-1) | 10 | 625 |
| 1,2-dichlorobenzene (95-50-1) | 10 | 625 |
| 1,4-dichlorobenzene (106-46-7) | 10 | 625 |
| 3,3-dichlorobenzidine (91-94-1) | 50 | 625 |
| diethyl phthalate (84-66-2) | 10 | 625 |
| dimethyl phthalate (131-11-3) | 10 | 625 |
| 2,4-dinitrotoluene (121-14-2) | 10 | 625 |
| 1,2-diphenylhydrazine (122-66-7) | 20 | 625 |
| fluoranthene (206-44-0) | 10 | 625 |
| hexachlorobenzene (118-07-1) | 10 | 625 |
| hexachlorobutadiene (87-68-3) | 10 | 625 |
| hexachlorocyclopentadiene (77-47-4) | 10 | 625 |
| hexachloroethane (67-72-1) | 20 | 625 |
| isophorone (78-59-1) | 10 | 625 |
| nitrobenzene (98-95-3) | 10 | 625 |
| N-nitrosodimethylamine (62-75-9) | 50 | 625 |

| | | |
|---|---|---|
| N-nitrosodiphenylamine (86-30-6) | 20 | 625 |
| **PESTICIDES & PCBs** | | |
| aldrin (309-00-2) | 0.05 | 608 |
| PCB's (Total) | 1.0 | 608 |
| gamma-BHC (Lindane, Hexachlorocyclohexane) (58-89-9) | 0.05 | 608 |
| chlordane (57-74-9) | 0.2 | 608 |
| 4,4"DDD (TDE) (72-54-8) | 0.1 | 608 |
| 4,4"DDE (72-55-9) | 0.1 | 608 |
| 4,4"DDT (50-29-3) | 0.1 | 608 |
| Dieldrin (60-57-1) | 0.1 | 608 |
| endosulfan I (alpha) (115-29-7) | 0.1 | 608 |
| endosulfan II (beta) (115-29-7) | 0.1 | 608 |
| endrin (72-20-8) | 0.1 | 608 |
| heptachlor (76-44-8) | 0.05 | 608 |
| methoxychlor* | | --- |
| 2,3,7,8-tetrachlorodibenzo-p-dioxin (1764-01-6) | ** | 625 |
| toxaphene (8001-35-2) | 5.0 | 608 |
| 2,4-dichlorophenoxyacetic acid (2,4-D) (94-75-7) | 10 | 509B |
| 2-(2,4,5-trichlorophenoxy)proprionic acid | 4 | 509B |
| **METALS** | | |
| antimony (7440-36-0) | 60 | 200.7 |
| arsenic (7440-38-2) | 10 | 206.2 |
| barium* | | --- |
| beryllium (7440-41-7) | 5 | 200.7 |
| cadmium (7440-43-9) | 1 | 213.2 |
| chromium III (16065-83-1) | 10 | 200.7 |
| chromium VI (7440-47-3) | 10 | 200.7 |
| copper (7550-50-8) | 10 | 220.2 |
| lead (7439-92-1) | 5 | 239.2 |
| flouride* | | --- |
| mercury (7439-97-6) | 0.2 | 245.1 |
| nickel (7440-02-0) | 40 | 200.7 |
| nitrate (as N)* | | --- |
| selenium (7782-49-2) | 5 | 270.2 |
| silver (7440-22-4) | 2 | 272.2 |
| thallium (7440-28-0) | 10 | 279.2 |
| zinc (7440-66-6) | 20 | 200.7 |
| **MISCELLANEOUS** | | |

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| | | |
|---|---|---|
| cyanide | 20 | 335.2 |
| total phenols | 5 | 420.1 |

* In addition to the effluent lab result for this pollutant, also report MQL and Test Method used.

** Method 625 is a nonquantitative screen that is used to ascertain a positive or negative result. With proper QA/QC techniques, a positive result can be expected at a level above 1 ppm. If this test yields a positive response, then Method 613 would be appropriate to establish the quantitative value. Method 613 requires use of the dioxin standard which is dangerous and should not be used unnecessarily.

## X. PREVIOUS PERMITS:

**LPDES Permit No. LA0042081:** Effective: May 1, 2002
Expired: April 30, 2007

| Effluent Characteristic | Discharge Limitations | | Monitoring Requirements | |
|---|---|---|---|---|
| | Monthly Avg. | Weekly Avg. | Measurement Frequency | Sample Type |
| Flow | Report | Report | Continuous | Recorder |
| $BOD_5$ | 30 mg/l | 45 mg/l | 1/day | 12 Hour Composite |
| TSS | 30 mg/l | 45 mg/l | 1/day | 12 Hour Composite |
| TRC | 1.0 mg/l | --- | 1/day | Grab |
| Phosphorus | Report mg/l | Report mg/l | 1/quarter | Grab |
| TKN | Report mg/l | Report mg/l | 1/quarter | Grab |
| Toxic Substances | --- | --- | 1/year | 24 Hour Composite |
| Fecal Coliform Colonies/100 ml | 200 | 400 | 1/day | Grab |
| pH | Range (6.0 su – 9.0 su) | | 1/day | Grab |
| Total Mercury | 0.23 lb/day | --- | 1/quarter | 24 Hour Composite |
| Biomonitoring | | | | |
| *Pimephales promelas* | Report | Report | 1/year | 24 Hour Comp. |
| *Daphnia pulex* | Report | Report | 1/year | 24 Hour Comp. |

The permit contains biomonitoring.
The permit contains pollution prevention language.

## XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:

### A) Inspections

A review of the files indicates the following most recent inspection performed for this facility.

Date – May 6, 2004
Inspector - LDEQ
Findings and/or Violations –

1. No excursions were noted since the last inspection. However, a fecal coliform sample collected on February 18, 2004, exceeded the holding time due to a

power failure at the lab.

2. The facility has properly documented several overflows from the collection system since the last inspection.
3. A facility site review was conducted and found to be satisfactory. One primary and one secondary clarifier were not currently in operation, but are only used in times of heavy rainfall to deal with I & I. The flow meter was last calibrated on December 4, 2003.

Date – April 1, 2005
Inspector - LDEQ
Findings and/or Violations –

1. Permit is available for review on-site.
2. DMRs and lab reports are available for review on-site.
3. Collection system overflow summary reports are submitted monthly with DMRs.
4. Priority pollutants will be reported on a single DMR with the lab results attached beginning April 2005 – subject to approval by LDEQ.
5. The last Toxic Substance DMR: May 1, 2003 through April 30, 2004.
6. The last Biomonitoring Report: May 1, 2003 through April 30, 2004.
7. The SPCC plan was last updated on June 24, 2004.
8. The pH meter is calibrated with each use.
9. The flow meter is installed with the discharge pipe and calibrated twice a year. Calibration records will be reviewed later.
10. The bar screen is cleaned automatically.
11. The aeration chamber was operational and housed within a covered structure.
12. The facility has two primary clarifiers that are enclosed by a roof structure.
13. The facility uses a trickling filter for part of the treatment process.
14. The facility has a solid contact unit used to enhance the biological process that aids with treatment of the mixed liquor.
15. Secondary clarifiers are used but one was taken out of service for repairs while the other is functioning normally.
16. Wasted sludge is sent to a digester prior to disposal through a belt press.
17. The belt press was taken out of service for repairs.
18. Chlorine gas is used to disinfect the effluent prior to discharging from Outfall 001.
19. Unpermitted discharges and exceedances noted on DMRs will be included in the final LPDES 3560 report

A Hurricane Impact Damage Audit was submitted to the Department and stated that the facility has returned to pre-hurricane operational status.

**B) Compliance and/or Administrative Orders**

A review of the files indicates the following most recent enforcement actions administered against this facility:

**LDEQ Issuance:**

Compliance Order
Enforcement Tracking No. WE-C-04-0938
Date Issued – May 24, 2005
Findings of Fact:

1. The Respondent owns and/or operates an existing sewage treatment facility which serves the residences and businesses of the Harvey, Terrytown, and Timberlane areas of Jefferson Parish. The facility is located at 2342 Pailet Street in Harvey, Jefferson Parish, Louisiana. The Respondent was issued LPDES permit LA0042081 on April 10, 2002, with an effective date of May 1, 2002, and an expiration date of April 30, 2007. LPDES permit LA0042081 authorizes the Respondent to discharge certain quantities and qualities of treated wastewater into the Mississippi River, waters of the state.
2. An inspection on May 6, 2004, revealed that the Respondent did cause or allow the unauthorized discharge of wastewater from a location not specified in LPDES permit LA0042081. Specifically, there had been approximately 15 unauthorized discharges from February 2004 to May 2003 from the collection system at various locations around the parish into local drainage.
3. A file review on May 2, 2005, revealed the permit exceedances for the period of June 2000 through March 2005 as reported by the Respondent on its DMRs and Noncompliance Reports. During this monitoring period, there were 13 $BOD_5$ exceedances, 4 TSS exceedances, and 1 fecal coliform exceedance.

Order:

1. To immediately take any and all steps necessary to meet and maintain compliance with LPDES permit LA0042081.
2. To submit to the Enforcement Division a written report that includes a detailed description of the circumstances surrounding the cited violations and actions taken or to be taken to achieve compliance with the compliance order.

**C) DMR Review**

A review of the discharge monitoring reports for the period beginning October 2004 through September 2006 has revealed the following violations:

| Parameter | Outfall | Period of Excursion | Permit Limit | Reported Quantity |
|---|---|---|---|---|
| $BOD_5$, Monthly Avg. | 001 | October 2004 | 3,428 lbs/day | 3,797 lbs/day |
| $BOD_5$, Monthly Avg. | 001 | November 2004 | 3,428 lbs/day | 4,108 lbs/day |
| $BOD_5$, Monthly Avg. | 001 | December 2004 | 3,428 lbs/day | 5,677 lbs/day |
| TSS, Monthly Avg. | 001 | December 2004 | 3,428 lbs/day | 3,532 lbs/day |
| $BOD_5$, Monthly Avg. | 001 | January 2005 | 3,428 lbs/day | 6,826 lbs/day |
| $BOD_5$, Monthly Avg. | 001 | January 2005 | 30 mg/l | 45 mg/l |
| $BOD_5$, Weekly Avg. | 001 | January 2005 | 45 mg/l | 58 mg/l |
| $BOD_5$, Monthly Avg. | 001 | February 2005 | 3,428 lbs/day | 7,020 lbs/day |
| $BOD_5$, Monthly Avg. | 001 | February 2005 | 30 mg/l | 33 mg/l |
| TSS, Monthly Avg. | 001 | February 2005 | 3,428 lbs/day | 6,971 lbs/day |
| TSS, Monthly Avg. | 001 | February 2005 | 30 mg/l | 31 mg/l |
| TSS, Monthly Avg. | 001 | March 2005 | 3,428 lbs/day | 3,559 lbs/day |
| TSS, Monthly Avg. | 001 | July 2005 | 3,428 lbs/day | 3,839 lbs/day |
| $BOD_5$, Weekly Avg. | 001 | September 2005 | 45 mg/l | 54 mg/l |

| | | | | |
|---|---|---|---|---|
| TSS, Weekly Avg. | 001 | September 2005 | 45 mg/l | 60 mg/l |
| Phosphorus, Monthly Avg. | 001 | May 2006 – July 2006 | Report | Did not Report |
| Phosphorus, Weekly Avg. | 001 | May 2006 – July 2006 | Report | Did not Report |
| TKN, Monthly Avg. | 001 | May 2006 – July 2006 | Report | Did not Report |
| TKN, Weekly Avg. | 001 | May 2006 – July 2006 | Report | Did not Report |
| Mercury, Monthly Avg. | 001 | May 2006 – July 2006 | 0.23 lb/day | Did not Report |

## XII. ADDITIONAL INFORMATION:

LDEQ reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future. Additional limitations and/or restrictions are based upon water quality studies and can indicate the need for advanced wastewater treatment. Water quality studies of similar dischargers and receiving water bodies have resulted in monthly average effluent limitations of 5mg/L $CBOD_5$ and 2 mg/L $NH_3$-N. Prior to upgrading or expanding this facility, the permittee should contact LDEQ to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

The nearest drinking water intake, St. Bernard Waterworks District #1, is located approximately 10 river miles downstream from the discharge point(s). Nearby potable water industrial intakes include Kaiser Aluminum and Chemical, Domino Sugar Corp., and Calciner Industries.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 13.7 MGD.

Effluent loadings are calculated using the following example:

$BOD_5$: 8.34 gal/lb x 13.7 MGD x 30 mg/l = 3,428 lbs/day

At present, the Monitoring Requirements, Sample Types, and Frequency of Sampling as shown in the permit are standard for facilities of flows greater than 10 MGD.

| Effluent Characteristics | Monitoring Requirements | |
|---|---|---|
| | Measurement Frequency | Sample Type |
| Flow | Continuous | Recorder |
| $BOD_5$ | 1/day | 12 Hr. Composite |
| Total Suspended Solids | 1/day | 12 Hr. Composite |
| Fecal Coliform Bacteria | 1/day | Grab |
| pH | 1/day | Grab |
| Biomonitoring Daphnia pulex | 1/year | 24 Hr. Composite |
| Pimephales promelas | 1/year | 24 Hr. Composite |
| Toxic Substances | 1/year | 24 Hr. Composite |

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**Pretreatment Requirements**

The Harvey Wastewater Treatment Plant (LA0042081) is owned by the Jefferson Parish Department of Public Works. Jefferson Parish began implementing an approved pretreatment program on September 1, 1982 and this program is tracked under LA0066630. The program was modified on January 8, 1993 to incorporate new pretreatment regulations and Technically Based Local Limits (TBLLs) into the program. The pretreatment program was subsequently modified (adopted by City Council on November 5, 2003; a resolution endorsing the funding and implementation of the Jefferson Parish Industrial Pretreatment Program was adopted on December 15, 2004) to incorporate revised TBLLs, and this modification was incorporated by LDEQ in the reissued LPDES permit LA0066630, effective August 1, 2006. An industrial pretreatment audit of this program was conducted on March 30 – April 1, 2004 and it indicated that the program is being implemented in a manner sufficient to regulate the industries connected to the treatment facility.

Therefore, it is recommended that LDEQ Option 2A Pretreatment Language be included in LPDES Permit LA0042081. This language is established for municipalities with industrial users on their collection system and with an approved pretreatment program. This recommendation is in accordance with 40 CFR Part 403 regulations, the General Pretreatment Regulations for Existing and New Sources of Pollution contained in LAC Title 33, Part IX, Chapter 61, and the Best Professional Judgement (BPJ) of the reviewer.

**Pollution Prevention Requirements**

The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report **each year** for the life of this permit according to the schedule below. The permittee will accomplish this requirement by completing an Environmental Audit Form which has been attached to the permit. All other requirements of the Municipal Wastewater Pollution Prevention Program are contained in Part II of the permit.

The audit evaluation period is as follows:

| Audit Period Begins | Audit Period Ends | Audit Report Completion Date |
|---|---|---|
| Effective Date of Permit | 12 Months from Audit Period Beginning Date | 3 Months from Audit Period Ending Date |

## XIII TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue a permit for the discharge described in this Statement of Basis.

## XIV REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

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Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards", Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program", Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, Jefferson Parish Department of Sewerage, Harvey Wastewater Treatment Plant, November 8, 2006.